

CURRICULUM VITAE

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Education

University of Natal, Durban, South Africa, B.Sc. (Hons), Mathematical Statistics & Economics, 1975
Georg-August Universität, Göttingen, W Germany, Ph.D., Mathematical Statistics, 1979

Professional Positions

Lecturer, Department of Statistics, Princeton University, USA. 1980-1981.
Acting Assistant Professor, Department of Statistics, University of Washington, Seattle, USA, 1981-1983.
Visiting Scientist, Division of Mathematics and Statistics, CSIRO, Melbourne, Australia. Consultant at the CSIRO Division of Atmospheric Research, 1984.
Research Officer, Department of Mathematical Statistics, University of Cape Town, South Africa, 1985.
Senior Biometrician, Institute for Biostatistics, South African Medical Research Council, Cape Town, 1987-1989.
High School Mathematics Teacher, adult education night school, Langa township, Cape Town, 1987-1989.
Visitor, Department of Statistics, University of Washington, Seattle, Jul-Aug 1987.
Visitor, Department of Statistics, University of Washington, Seattle, 1989.
Consultant Statistician, Birth to Ten birth cohort study at Wits Medical School, University of the Witwatersrand, Johannesburg, South Africa, 1990.
Chief Research Officer, Department of Statistical Sciences, University of Cape Town, 1991-1993.
Associate Professor of Biostatistics, Department of Statistical Sciences, University of Cape Town, 1994-1995.
Consultant, Centre for Epidemiological Research, SA Medical Research Council, 1991-1995.
Research Associate Professor, Department of Biostatistics, University of Washington, 1996-2002.
Research Professor, Department of Biostatistics, University of Washington, 2002-present.
Honorary Professor, School of Nursing and Public Health, University of KwaZulu-Natal, 2014-present

Honors:

Fellow of the South African Statistical Association, November 2011

Membership in Professional Organizations:

American Statistical Association
International Biometric Society
International Statistical Institute (elected 1993)
South African Statistical Association

Editorial Boards:

Statistical Editor, South African Medical Journal, 1993-1995
Associate Editor, Biometrics, Shorter Communications 1997-2000
Associate Editor, Biometrics 2000-2003

Bibliography**a) Refereed research articles**

1. **Thompson ML**: Selection of variables in multiple regression Part I. A review and evaluation. *Int Stat Rev* **46**:1-19, 1978.
2. **Thompson ML**: Selection of variables in multiple regression Part II. Chosen procedures, computations and examples. *Int Stat Rev* **46**:129-146, 1978.
3. Bloomfield P, **Thompson ML**, Zeger S: A statistical analysis of Umkehr measurements of 32-46 Km ozone. *J Appl Met* **21**:1828-1837, 1982.
4. Bloomfield P, **Thompson ML**, Zeger S: A frequency domain analysis of trends in Dobson total ozone records. *J Geophys Res* **88**:8512-8522, 1983.
5. **Thompson ML**, Guttorp P: A probability model for severe cyclonic storms striking the coast around the Bay of Bengal. *Mon Weather Rev* **114**:2267-2271, 1986.
6. **Thompson ML**, Guttorp P: Estimating the second order product moment from the process of counts. *S Afr Stat J* **20**:1-7, 1986.
7. **Thompson ML**, Enting IG, Pearman GI, Hyson P: Interannual variation of atmospheric CO₂ concentration. *J Atmos Chem* **4**: 124-155, 1986.
8. **Thompson ML**, Zucchini W: On the statistical analysis of ROC curves. *Stat Med* **8**:1277-1290, 1989.
9. Pattinson RC, Theron GBB, **Thompson ML**, Lai Tung M: Doppler ultrasonography of the fetoplacental circulation - normal reference values. *S Afr Med J* **76**:623-625, 1989.
10. Guttorp P, **Thompson ML**: Nonparametric estimation of intensities for sampled counting processes. *J Roy Stat Soc B* **52**, 157-173, 1990.
11. Guttorp P, **Thompson ML**: A note on point process analysis of Chinese earthquake data. *Pure and Applied Geophysics* **133**:541-546, 1990.
12. Strebel PM, **Thompson ML**: Time series modelling of malaria notification data. *SA J Epi Infect* **5**:27-32, 1990.
13. Rossouw JE, Jooste PL, Steenkamp HJ, **Thompson ML**, Jordaan PCJ, Swanepoel ASP: Socio-economic status, risk factors and coronary heart disease. *S Afr Med J* **78**:82-85, 1990.
14. **Thompson ML**, Theron GB: Maximum likelihood estimation of reference centiles. *Stat Med* **9**:539-548, 1990.
15. Theron GB, **Thompson ML**: A centile chart for weight gain in pregnancy for the urban population of the Western Cape. *Int J Gynaecol Obstet* **33**:127-133, 1990.
16. Rossouw JE, **Thompson ML**, Jooste PL, Swanepoel SP, Jordaan PCJ: Choice of coronary heart disease risk factor variables in a cross sectional study of white South Africans. *S Afr Med J* **78**:570-577, 1990.
17. Rossouw JE, **Thompson ML**, Jooste PL, Swanepoel ASP, Jordaan PCJ: Relation of family history and reversible risk factors to coronary heart disease prevalence in an Afrikaner community. *Arterioscler Thromb* **11**:130-137, 1991.

18. **Thompson ML**, Zucchini W: Assessing the usefulness of probability forecasts. *Mon Weather Rev* **118**:2696-2706, 1991.
19. Guttorp P, **Thompson ML**: Estimating second order parameters of volcanicity from historical data. *J Amer Stat Assoc* **86**:578-583, 1991.
20. Sitas F, **Thompson ML**: A role for the ecological study in the developing world. *S Afr Med J* **83**:753-756, 1993.
21. Theron GB, **Thompson ML**: The usefulness of weight gain in predicting pregnancy complications. *J Trop Pediatr* **39**:269-272, 1993.
22. London L, **Thompson ML**, Sacks S, Fuller B, Bachmann OM, Myers JE: Repeatability and validity of a field kit for estimation of cholinesterase in whole blood. *Occup Environ Med* **52**:57-64, 1995.
23. Theron GB, **Thompson ML**: A centile chart for birthweight for an urban population of the Western Cape. *S Afr Med J* **85**:1289-1292, 1995.
24. Barr GDI, Sparks RJ, Affleck-Graves J, **Thompson ML**: Selection criteria for regression models and their application to abnormal event studies in finance. *S Afr Stat J* **30**:137-155, 1996.
25. Guttorp P, **Thompson ML**: Estimation for point processes from incomplete data: a review and some extensions. *Brazilian J Prob Stat* **10**:135-149, 1996.
26. **Thompson ML**, Fatti LP: The use (and abuse) of reference centiles with an application to weight gain in pregnancy. *S Afr Med J* **87**:206-213, 1997.
27. **Thompson ML**, Fatti LP: Construction of multivariate centile charts for longitudinal data. *Stat Med* **16**:333-345, 1997. PMID: 9044524.
28. **Thompson ML**, Theron GB, Fatti LP: Predictive value of conditional centile charts for weight and fundal height in pregnancy in detecting light for gestational age births. *Eur J Obstet Gyn* **72**:3-8, 1997.
29. London L, Myers JE, Nell VN, Taylor T, **Thompson ML**: An investigation into neurological and neurobehavioural effects of long-term agrichemical use among deciduous fruit farm workers in the Western Cape, South Africa. *Environ Res* **73**:132-145, 1997.
30. Fatti LP, Senaoana EM, **Thompson ML**: Bayesian updating in reference centile charts. *J Roy Stat Soc A* **161**:103-115, 1998.
31. Myers JE, **Thompson ML**: Meta-analysis and occupational epidemiology. *Occup Med* **48**:99-101, 1998.
32. Fourie JA, **Thompson ML**: A model for the prediction of time to union in fractures of the tibia. *Physiother Res Int* **3**:27-36, 1998.
33. London L, Nell V, **Thompson ML**, Myers JE: Effects of long-term organophosphate exposures on neurological symptoms, vibration sense and tremor among South African farm workers. *Scand J Work Environ Health* **24**:18-29, 1998.
34. **Thompson ML**, Myers JE, Kriebel D: Prevalence odds ratio or prevalence ratio in the analysis of cross sectional data: what is to be done? *Occ Environ Med* **55**:272-277, 1998.
35. Theron GB, **Thompson ML**: The usefulness of a weight gain spurt to identify women who will develop preeclampsia. *Eur J Obstet Gynaecol Reprod Biol* **78**:47-51, 1998.

36. London L, **Thompson ML**, Nell VN, Myers JE: Health status and risk factors for chronic illness among farm workers in the Western Cape: Collateral evidence from a study of occupational hazards. *S Afr Med J* **88**:1096-1101,1998.
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44. London L, **Thompson ML**, Capper W, Myers JE: Utility of vibration sense testing for use in developing countries. *Neurotoxicology* **21**:743-752, 2000.
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70. **Thompson ML**, Myers JE: Evaluating and interpreting exposure-response relationships for manganese and neurobehavioral outcomes. *Neurotoxicology* **27**:147-52, 2006. PMID 16159667
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93. Littman AJ, Boyko E, **Thompson ML**, Haselkorn J, Sangeorzan B, Arterburn D. Physical activity barriers and enablers in older Veterans with a lower-limb amputation. *J Rehab Res Dev* **51**: 895-906, 2014. PMID: 25356624
94. Walsh T, Shores M, Fox A, Moore K, Forsberg C, Heckbert, S, Zeliadt Z, **Thompson ML**, Smith NL. Recent trends in testosterone testing, low testosterone, and testosterone treatment among Veterans. *Andrology* **3**: 287-292, 2015. PMID: 25684636

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97. Mohanty AF, **Thompson ML**, Burbacher TM, Siscovick DS, Williams MA, Enquobahrie DA. Periconceptional seafood intake and fetal growth. *Paediatr Perinat Epidemiol.* **29**: 376-387, 2015. PMID: 26147526
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100. Muzigaba M, **Thompson ML**, Sartorius B, Matthews G, Nadesan-Reddy N, Pillay S, Lalloo U. Evaluation of the MEPI Biostatistical Reasoning workshops for faculty and postgraduate students at the University of KwaZulu-Natal. *Afr J Health Professions Educ* **8**: 87-91, 2016. doi:10.7196/AJHPE.2016
101. Czerniecki JM, Turner AP, Williams RM, **Thompson ML**, Landry G, Hakimi K, Speckman R, Norvell DC. The development and validation of the AMPREDICT model for predicting mobility outcome after dysvascular lower extremity amputation. *J Vascular Surgery* **65**:162-171, 2017. doi: 10.1016/j.jvs.2016.08.078.

b) Other refereed scholarly publications

Letters to Editors

1. Zwarenstein M, **Thompson ML**, Strebel P: Utilization review and health care expenditures. Letter to the Editor. *New England Journal of Medicine.* Oct 27:1158, 1988.
2. **Thompson ML**, Ehrlich R: Correlation analysis of serial data. *Archives of Environmental Health*, **49**:205-206, 1994.
3. Twomey M, Wallis LA, **Thompson ML**, Myers JE. Triage-weighted kappa: a more appropriate triage reliability measure. *J Clin Epidemiol.* **63**:806-7, 2010. PMID: 20189769

c) Books and book chapters

1. Cox LH, Guttorp P, Sampson P, Caccia D, **Thompson ML**: Preliminary statistical examination of the effects of uncertainty and variability on environmental regulatory standards for ozone (with discussion). **In: Environmental Statistics: Analyzing Data for Environmental Policy.** Chichester: John Wiley & Sons, Ltd., 1999, pp. 122-143.
2. **Thompson ML**: Meteorological adjustment of air quality. **In: Encyclopedia of Environmetrics.**

d) Other non-refereed published scholarly publications**Technical Reports**

Guttorp P, **Thompson ML**: Three papers on statistical inference for point processes. Technical Report No 35, Dept. of Statistics, University of Washington, 1984.

Thompson ML, Sampson PD: Fishing with EM for an estimator of a salmon run. Technical Report No 36, Dept of Statistics, University of Washington, 1984.